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RADIATION EFFECTS INFORMATION CENTER

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PART II

COORDINATE INDEX

INTRODUCTION

The REIC staff have determined that the Monthly Accession List is being used for retrospective searches as well as a current awareness facility. Consequently, the staff and the sponsor feel that an adequate index should be supplied to serve as a rapid search tool.

The following inverted concept-coordinate index is based upon terms generated in the REIC subject files. The index is cumulative throughout the year, and the staff plans to provide a "dual dictionary" at the end of each contract year to facilitate the retrospective search capabilities for the accession list abstracts.

The index is subdivided into four sections. The first, Radiation Environment, includes dosimetry and energy aspects of all electromagnetic and particulate radiation sources, with the exception of space radiation. Section two deals with materials, properties, secondary environment (including space environments), devices, and all other subject concepts. Section three lists all authors, in alphebetical order; and section four lists the generating organization.

Under each concept term in the index are listed the accession numbers of the abstracts which have been indexed by that term. Links have been added where necessary to obviate improper coordination with the resulting false retrieval. Experience demonstrated that only four of the proposed EJC standard role indicators would have been required with any significant number of the entries.

To use the index, take those terms, authors, organizations, etc. which collectively describe the idea, or ideas, for which the search is required. A comparison of the accession numbers will show those abstracts whose accession numbers are common to all desired terms. These abstracts should contain information on the desired subject matter.

Three important facts must be remembered in the use of this coordinate index:

(1) This is a SELECTED ACCESSION LIST. Not all the documents extracted for the REIC File are abstracted for inclusion in this list. Approximately forty per cent are felt to be inappropriate. Consequently, to insure completeness in any search, it is essential that the REIC be contacted.

(2) Since this is a cumulative index, the index for the preceeding month should be destroyed. As the index is developed, changes are made both in the arrangement of terms and in the selection of terms.

(3) This dissemination service is not intended to replace direct contact at the various locations remote to the Center. Direct contact with the Center and its technical staff is encouraged.

DOCUMENT AVAILABILITY

The reports listed in the Monthly Accession List are not available from Battelle. This limitation on the provision of reports to requestors is a result of the Government attempting to reduce duplication of effort in that many of the reports are available through document distribution organizations such as: Armed Services Technical Information Agency, Office of Technical Services, and the AEC Division of Technical Information Extension. Copies of journal articles are not provided because of copyright restrictions and the belief that journals should be readily available to the requestor on inter-library loan.

The following abbreviations are used to indicate the availability of documents:

(1) ASTIA - Reports available to Government Contractors with correct Field-of-Interest Register on file from the Armed Services Technical Information Agency, Document Service Center, Arlington Hall Station, Arlington, Virginia.

(2) AEC - Reports available to Government Contractors via channels described in Nuclear Science Abstracts. DOD Contractors' requests should go to the AEC Technical Information Service, Oak Ridge, Tennessee via the contractor's project monitor.

(3) ASAPRD-NS - Reports available to Air Force Contractors via the contractor's project monitor through channels to ASD, ASAPRD-NS, Wright-Patterson Air Force Base, Ohio.

(4) OTS - U.S. Department of Commerce, Office of Technical Services, Washington 25, D.C.

(5) NASA - National Aeronautics and Space Administration, Office of Scientific and Technical Information, Attention: Code AFSS-A, Washington 25, D.C.

SECTION I
RADIATION ENVIRONMENT

Alpha Irradiation

Neutron Irradiation

Electromagnetic Irradiation

Electron Irradiation

Electrons Less than 1Mev

Electrons 1Mev

Electrons 1Mev

Electrons 1Mev

Electrons 5Mev and above

Gamma Irradiation

Gamma 10^{6}ergs g^{-1}(C) and Less

Gamma 10^{7}ergs g^{-1}(C)

Gamma 10^{8}ergs g^{-1}(C)

Gamma 10^{9}ergs g^{-1}(C)

Gamma 10^{10}ergs g^{-1}(C)

Gamma 10^{11}ergs g^{-1}(C)

Gamma 10^{12}ergs g^{-1}(C) and Above

Neutron Irradiation

Fast Neutron Irradiation

Integrated Neutron Irradiation

Thermal Neutron Irradiation

Neutrons 10^{8}n/cm^{2} and Less

Neutrons 10^{10} to 10^{12} n/cm^{2}

Neutrons 10^{12} to 10^{14} n/cm^{2}

Neutrons 10^{14} to 10^{16} n/cm^{2}

Neutrons 10^{16} to 10^{18} n/cm^{2}

Neutrons 10^{18} to 10^{21} n/cm^{2}

Photon Irradiation

Pulsed Irradiation

Ultraviolet Irradiation

X-Ray Irradiation

SECTION II
MATERIALS, PROPERTIES, SECONDARY ENVIRONMENTS, DEVICES AND OTHER COORDINATE TERMS

SECTION III
AUTHORS

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Callihan, F. R.
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Crain, C. M.
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Desai, U. D.
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Stanford Research Institute
17[illegible]51 17647
1[illegible]31

State University of Iowa
17[illegible]3 18614 18045 18046A 17828 18609
18003 18605

Stevens Institute of Technology
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17[illegible] 18553 18556

Technical Operations, Inc.
18069A

Texas Instruments, Inc.
17887 17649

Texas Nuclear Corporation
17[illegible] 17918

Union Carbide Corporation
17984

Union Carbide Corp., Oak Ridge National Laboratory
18[illegible] 17[illegible] 17852 17814 17665 18039
18562 18034

Union Carbide Corp., Oak Ridge Technical Enterprises Corp.
18056

United Nuclear Corporation
18552 17896

University of Alaska
18593 18605

University of California
18612

University of California, Lawrence Radiation Laboratory
18562 17623 18654 18547 17638
17963 18638

University of California, Los Alamos Scientific Laboratory
18[illegible]20 17858 17309
18608

University of Chicago, Argonne National Laboratory
18050 18561 18622 18083 17375 17377
17845 17917
18647

University of Chicago, Enrico Fermi Institute for Nuclear Studies
18044

University of Florida
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University of Georgia
18053

University of Houston
17315

University of Illinois
18052 18686

University of Maryland
17912 18074

University of Michigan
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University of Minnesota
18092

~~University of Mississippi~~
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University of North Carolina
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University of Rochester
18015

University of Southern California
17833

University of Toronto (Knoxville, Tenn.)
18085

University of Washington
17645

Westinghouse Electric Corporation
17933 18574

Westinghouse Electric Corp., Atomic Power Division
18036

Yale University
17319

U.S. GOVERNMENT ORGANIZATIONS

U.S. Air Force, Aeronautical Systems Division
17[illegible] 18042 17333 18004 17345 18566
18632 17525

U.S. Air Force, Air University
18554 18657 18658
18634

U.S. Air Force, Cambridge Research Laboratories
18069

U.S. Air Force, Special Weapons Center
18608

U.S. Army, Chemical Center
17[illegible] 17803 17527 17998
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U.S. Army, Diamond Ordnance Fuse Laboratories
17351 17352 17523 17646 17898

U.S. Army, Electronics Research and Development Laboratory
18521 18664 18678

U.S. Army, Picatinny Arsenal
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U.S. Army, Quartermaster Research and Engineering Center
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U.S. Army, Signal Research and Development Laboratory
17522 18643 17919

U.S. Atomic Energy Commission
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U.S. Bureau of Mines
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U.S. Committee on Extension to the Standard Atmosphere
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U.S. Department of Commerce, National Bureau of Standards
1[illegible] 18068

U.S. Department of Defense
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U.S. Department of Defense, Institute for Defense Analyses
17903

U.S. National Aeronautics and Space Administration, Ames Research Center
18506 18049

U.S. National Aeronautics and Space Administration, Goddard Institute for Space Studies
18[illegible]2

U.S. National Aeronautics and Space Administration, Goddard Space Flight Center
18640 17871 17632 17633 18005 17346 17347 18048 18[illegible]
18008 17903 17887 18508 18[illegible]
18593 18647
18577

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17902 17344 18016 18017 17[illegible]
18586

U.S. National Aeronautics and Space Administration, Lewis Research Center
18080 17901 17892 18013 17815
18533 17885

U.S. National Aeronautics and Space Administration, Manned Spacecraft Center
18603

U.S. National Aeronautics and Space Administration, George C. Marshall Space Flight Center
18030 18601 17982 17995 17[illegible]7
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U.S. Naval Radiological Defense Laboratory
18672 18653

U.S. Naval Reseach Laboratory
18684 18685 17336 17837 17520 17860
17396 18087 1[illegible] 17[illegible]
18976 18520

FOREIGN ORGANIZATIONS

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18587

Australia
Australian Atomic Energy Commission Research Establishment
18093
Australian Department of Supply, Aeronautical Research Laboratories
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Belgium
Centre D'etude De L'energie Nucleaire
17660
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17639
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